Devices: Wallys, Macro Pad 2, Raspberry Pi, and Machine Control

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Created 30/04/2021 - 6:03pm

- **Router board showcases up to octa-stream 802.11ax enabled Qualcomm SoC** [4]

  Wallys? DR8072A? router board features a 2.2GHz, quad -A53 Qualcomm IPQ8072A SoC equipped with dual-band, 4×4 802.11ax (Wi-Fi 6) for 8x streams at up to 2475 Mbps plus 4x GbE, 2x 2.5GbE, 2x USB 3.0, and mini-PCIe.

  Wallys (or Wally?s) Communications manufactures router boards for Qualcomm?s growing roster of quad -A53 networking SoCs featuring 802.11b/g/n/ax (Wi-Fi 6). It latest DR8072A (HK09) board taps the Qualcomm IPQ8072A to deliver higher-bandwidth 802.11b/g/n/ax than is available on the earlier Qualcomm IPQ6000 (Networking Pro 400 Platform) family. Farther below, we also look at some other boards based on the IPQ8072A, including the Compex WPQ872 and WPQ873 and a UniElec WiFi 6 Router board

- **ANAVI Macro Pad 2 open source programmable dual key keypad** [5]
A new project soon to be available from the Crowd Supply website is the open source, programmable two-key mechanical keypad with backlighting, taking the form of the ANAVI Macro Pad 2. The tiny open source 2% mechanical keyboard/keypad is equipped with two reprogrammable keys that can be used with macros or setup is dedicated shortcut keys.

[...]

"Getting started with ANAVI Macro Pad 2 is easy... and GNU/Linux distributions."


**Why you should learn to code with Raspberry Pi** [6]

While coding may seem alien to many people, it's actually very accessible if you decide you want to get started. There are plenty of online resources to help you get started and the possibilities of what you can achieve are endless.

Raspberry Pi offers the perfect platform for you to take your first steps in this new world. Read on to find out why.

[...]

Despite its incredible processing power, Raspberry Pi uses far less power than other computers. It has no fan so is more energy efficient and runs far quieter.

For people who are extremely energy conscious, you could programme your Raspberry Pi so that it becomes an energy monitoring system. If you want it to actively play a role in making your home eco-friendlier, you can even use it to help control your smart lighting and heating systems.


**The New Era of Machine Control** [7]

With a multicore processor, one core can be dedicated just to machine control, while another core supports leading-edge apps like machine learning or database maintenance. The use of Linux as the foundation for the operating system makes sense because it is a proven, open-source platform that has millions of developers updating and enhancing its capabilities.

There are versions of Linux that have been developed to support real-time, high-speed processing in other applications and have demonstrated reliable, robust performance, making it eminently suitable for use in the most demanding automation applications in combination with the multicore processor architecture.

**GNU Linux Hardware**

**Source URL:** http://www.tuxmachines.org/node/150653

**Links:**